

STATISTICAL ANALYSIS **S17** ,S15 **GRADE/TIME** \ S3 PHYSICIAN S1 /S11 ,S13 MESSAGES STARTUP **IDENTIFY PATIENT** CHECK PATIENT PERFORMANCE 83 **S**2 READ MESSAGES SEND MESSAGES ,S5 COMMUNICATION

S21

S25

GROUP

S23

PATIENTS

S27

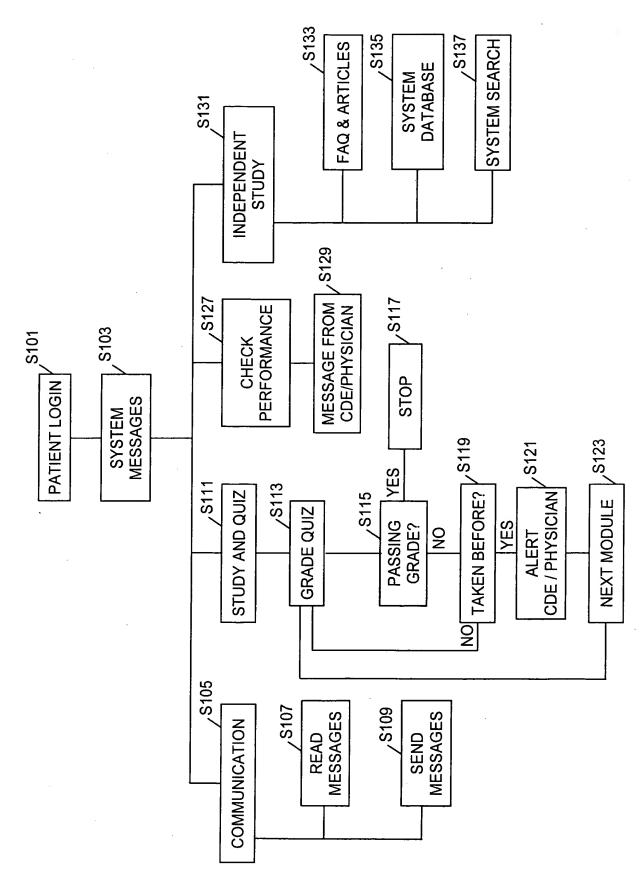
CDEs

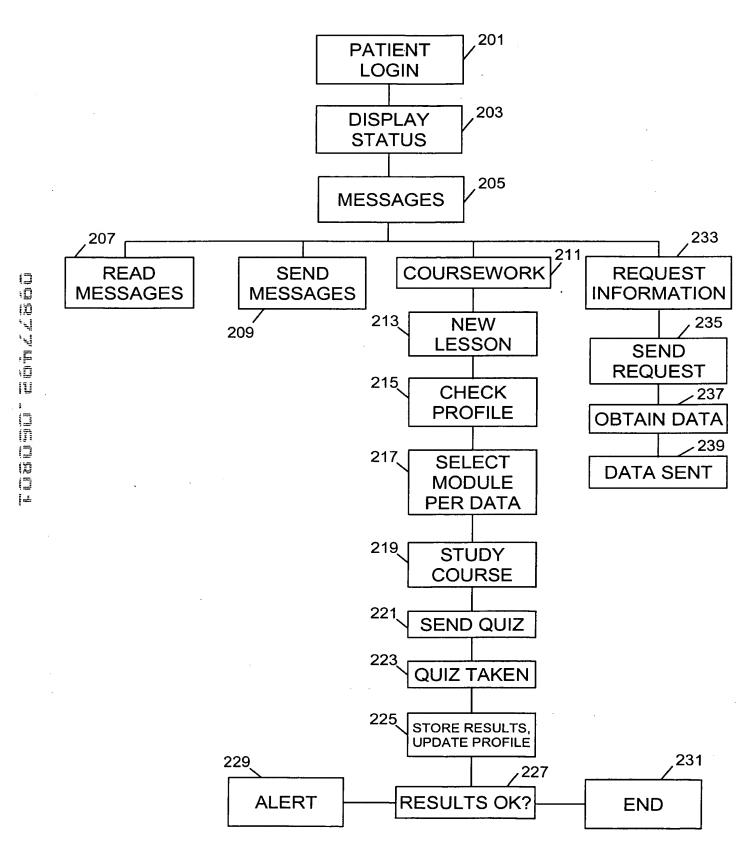
S19

GOALS MET?

APPOINTMENTS

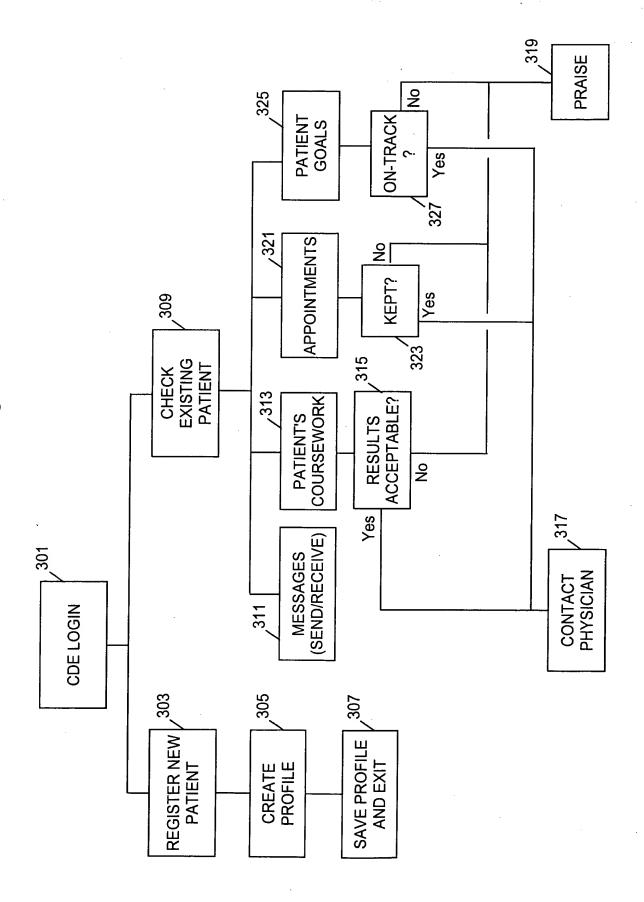
FIGURE 3





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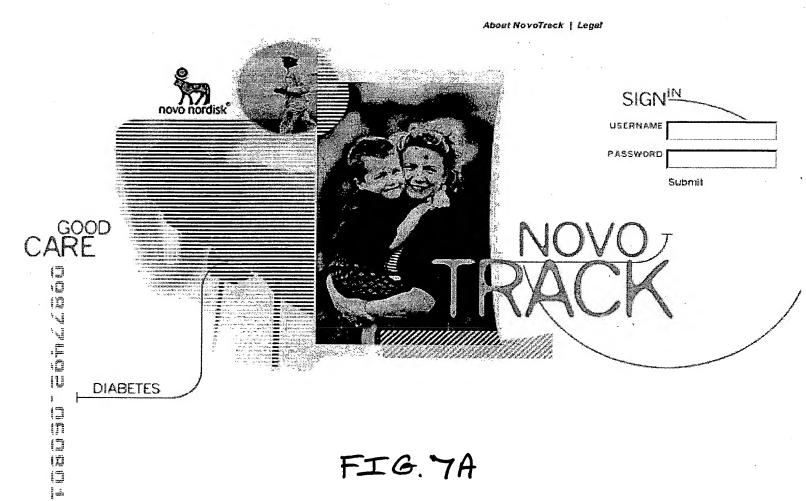


FIG. 7A

Ralf Ackermann
Personal Scorecard
Physician
Geoffrey Gates, MD
Diabetes Control
A1c 7.5 %
Next Appointment
04/20/01
NovoTrack Progress
37 of 35 opics
completed
Message Center - 0

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FAQS | Glossary | Credits | Legal | Home TRACK 1 2 3 4 5 6 7

GUIDETO GOOD CARE

Welcome to NovoTrack - your program to good diabetes care! This program was designed for you. You will find what you need to know about diabetes in the Guide to Good Care, Personal Scorecard and Message Center.

Guide to Good Care is a course in 7 tracks with 35 topics that were chosen to fit you and your diabetes. We recommend that you start at the beginning, but you can start anywhere and complete the topics in any order. Remember to answer the questions after reading each topic. You can reach the course by selecting a numbered button at the top of this page.

Personal Scorecard gives you access to vital information about your diabetes from your primary care provider. Explanations of each test help you to understand where you are now and where you should be going to reach the goals of good diabetes care. The Personal Scorecard can be reached from this homepage on the right or from the BioBox on the left of each page.

Message Center is a secure way to send messages to a nurse in your physicians office who can find answers to your questions about diabetes. The nurse will be following your progress through the Guide to Good Care. Remember that you and your physician make all the decisions about your individual medical care. Message Center can be reached from this homepage on the right or from the BioBox on the left of each page.

You can reach this homepage at any time by clicking on "NovoTrack" in the upper left corner or the "Home" menu item at the top of each page.

Now you are ready to get your diabetes on track - NovoTrack!

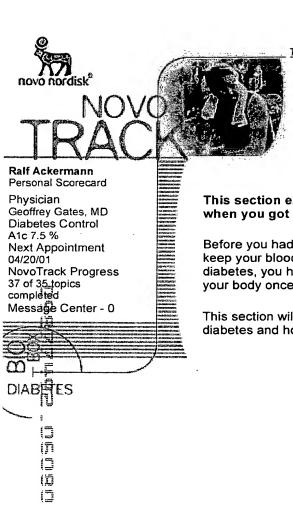
PERSONAL SCORECARD

Get instant access to vital info about your diabetes from your primary care provider.

MESSAGE CENTER

Post a message to a CDE who can answer your questions about diabetes.

FIG. 7B



FAQS | Glossery | Credits | Legal | Home | TRACK | 3 4 5 6 7

TRACK 2 HAT IS WHAT DIABETES?

This section explains how your body works and what happened when you got diabetes.

Before you had diabetes, your body automatically made adjustments to keep your blood glucose at just the right level. Now that you have diabetes, you have to think about it. You have to make decisions that your body once made for you.

This section will tell you how your body worked before you had diabetes and how it works now.

NEXT



Before You Had Diabetes

What Causes Diabetes

Effects of Diabetes

Who Gets Diabetes



FIG. 7C

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TRAC

Ralf Ackermann
Personal Scorecard

Physician
Geoffrey Gates, MD
Diabetes Control
A1c 7.5 %
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38 of 35 topics
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Message Center - 0

DIAB開ES

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1 3 4 5 6 7

FIG. 7D(1)

TRACK 2)
WHATDIABETES?

Effects of Diabetes

A Healthy Life

People with diabetes can live long and active lives. Knowing how to treat your diabetes can help you avoid the symptoms of high and low blood glucose. Maintaining good diabetes control over time reduces the risk of long term complications.

No one would want to have diabetes, but those who rise to the challenge of good diabetes care may find strengths that they never knew they had.

High Blood Glucose

Both high and low blood glucose can cause symptoms that go away after the blood glucose returns to an acceptable level. In rare circumstances, extremes of either high or low blood glucose can lead to coma with results that may not be easy to reverse.

The symptoms of a very high blood glucose are thirst, excessive urination, fatigue, weakness and loss of weight. Other symptoms can occur including blurring of vision and difficulty healing wounds or fighting infections.

When your blood glucose is very high, the body can flush some of the excess blood glucose out of your system by putting it into the urine. You get thirsty as your body loses more and more water in the sugary urine. Frequent trips to the toilet can disturb sleep and interrupt activities during the day.

If a high blood glucose is left untreated, you can begin to lose weight. The weight you lose is not a healthy weight loss. Even though the blood glucose is high, the glucose can't get into the cells so the cells don't get the energy they need to do their work. Muscle is being broken down to make even more glucose. This results in weakness and fatigue.

At a certain level of blood glucose, the brain cannot function well. The most severe consequences of an extremely high blood glucose are confusion and eventually coma. These complications can be prevented by the most basic diabetes care.

Low Blood Glucose

Low blood glucose is usually the result of treatment that is not matched to a person's needs. This topic is covered extensively in Section 2 Using Medications Wisely.

Long-Term Complications

The complications of diabetes are not inevitable. High blood glucose can damage many different organs in your body. How diabetes damages an organ is complex and not completely understood even by scientists who study these problems. It has been shown by a number of studies that maintaining good control of blood glucose reduces the risk of complications. Control of other risks such as high blood pressure and cholesterol can also reduce the risk of complications.



People can live long and healthy lives with diabetes.



Thirst, excessive urination and other symptoms of diabetes do not occur until the blood glucose levels ar extremely high.



Loss of vision (and other long term complications) can be prevented by good diabetes care.



Weight loss because of

Each of the major complications of diabetes is discussed at greater length in Track 6 Complications.

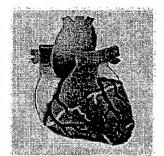
Heart Disease

You may not think of a heart attack as a complication of diabetes - but it is! People with diabetes are at greater risk of diseases caused by cholesterol that builds up and blocks vital arteries. People without diabetes can get blockage in an artery leading to a heart attack, stroke or other circulatory complication. Diabetes just makes all of these complications worse.

Fortunately, various treatments have been shown to reduce the risk of heart disease and other circulatory problems for people with diabetes. You can learn more about this subject in Track 4 Treating High Blood Pressure and Treating High Cholesterol and in Track 6 Heart Disease.

Go To Questions

high blood glucose is not healthy. A large part of the weight loss is muscle - with weakness and fatigue as a result.

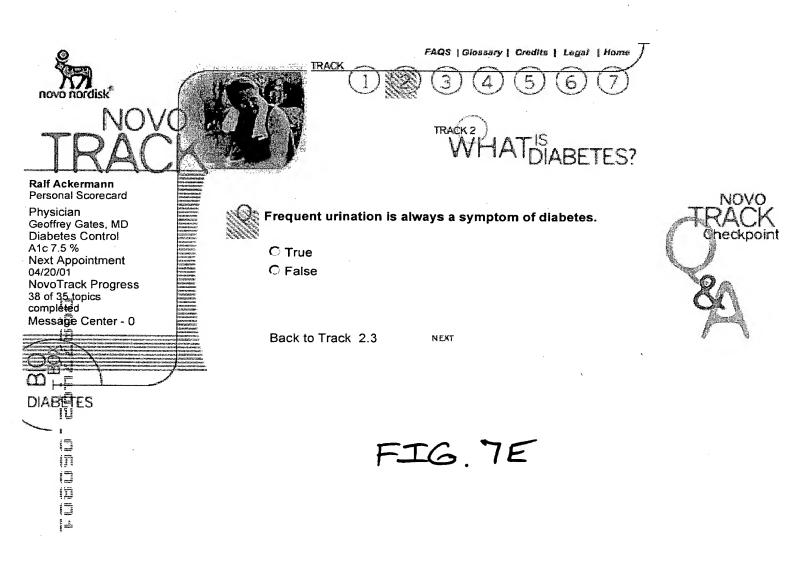


Diabetes increases the risk of heart disease. Good diabetes care reduces the risk.

SEE HOW IT WORKS!

FIG. 7D(a)





Ralf Ackermann
Personal Scorecard
Physician
Geoffrey Gates, MD
Diabetes Control
Atc 7.5 %
Next Appointment
04/20/01
NovoTrack Progress
37 of 35 topics
completed
Message Center - 0

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PERSONAL SCORECARD

How Am I Doing?

This is a good question to ask. Your personal scorecard helps you to answer this question.

Each of the test results to the right of this page has been selected with a purpose. Click on the test result to see an explanation of the test and its significance to your health.

Each test predicts the risk of one or more of the long-term complications of diabetes. For each test, treatment that moves the value toward the recommended goal is beneficial.

Not everyone can achieve the goals set by the American Diabetes Association and others. For some, these recommendations are not appropriate due to other medical concerns. You and your healthcare provider will need to decide goals that are appropriate for you. You can record these values by clicking the Personal Diabetes Goals at the bottom of the column to your right.

FIG. 7F

Personal Care

Personal Goals Blood Glucose Testing Average 7 per week

Laboratory Tests

Diabetes Control A1c 7.5%

Kidney Health Urine albumin 532

Cholesterol Profile
Total cholesterol - 211
HDL cholesterol - 40
LDL cholesterol - 110
Triglycerides - 346

Physical Examination

Weight/BMI 150 lbs/32

Blood Pressure 160/100

Foot Sensitivity sensitive

Eye Examination

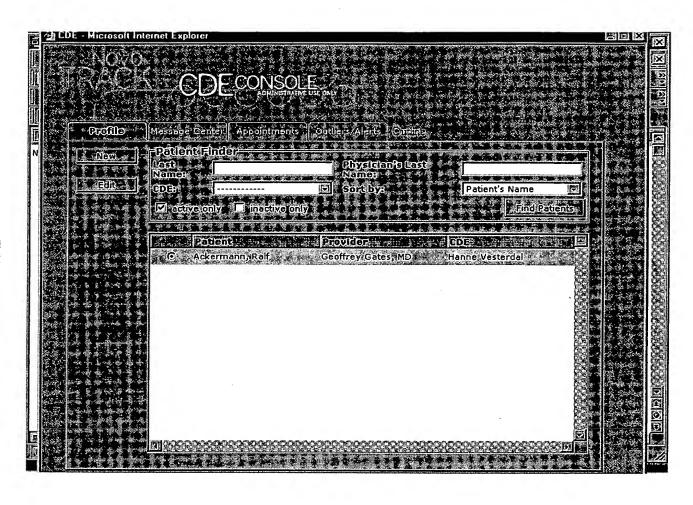


FIG. 7G

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Address:	Ackermann	
City:	State: Zip Code:	
Phone:	Email: [rwa@novo.dk	

FIG. 7H

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Patient: Ralf Ackermann Registration #: 201 Physician's First Name: Geoffrey Last Name: Gates Suffix: MD	
Type of Diabetes: Type 2 Gender: Male Age: 41 Height: 178 Foot Care: High Risk T Neuropthy: Absent T	
Nephropathy: Present Heart Disease: Present Retinopathy: Absent	
Results Date Goal Blood Sugar Goals edit Alc (%) 7.5 3/29/00 7.0 edit Number of Tests 7 per week	
edit Urine Albumin 532 10/10/00 400 (specify per week or day) / per week or day / per week or day) / per week or day / per week or day) / per week or day / per week or day) / per week or day / per week / per week or day / per week or day / per week or day / per week	1.3
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FIG.7J

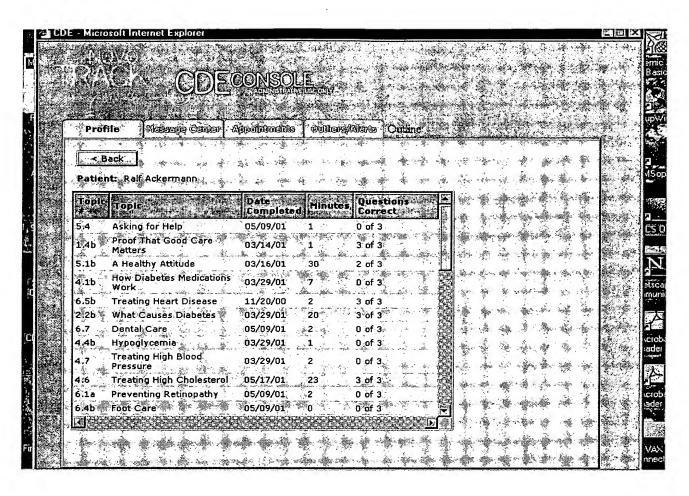


FIG. 7K

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Actual Physician Appointme	ALPERTY CONTRACTOR CON	the production of the second second second	4/20/01		
*NOTE: Dates must be entered	in the following format: m/d/	yy or mm/dd/yyyy			
					1 64 1 84
Ophthalmologist					
Date of last Ophthalmologis	t Appointment:		1/4/00		
Next Ophthalmologist Appol	ntment Goal:		1/4/01		
Actual Ophthalmologist App			10/25/01		
*NOTE: Dates must be entered	in the following format: m/d/	yy or mm/dd/yyyy		5.1.1	

FIG. 7L

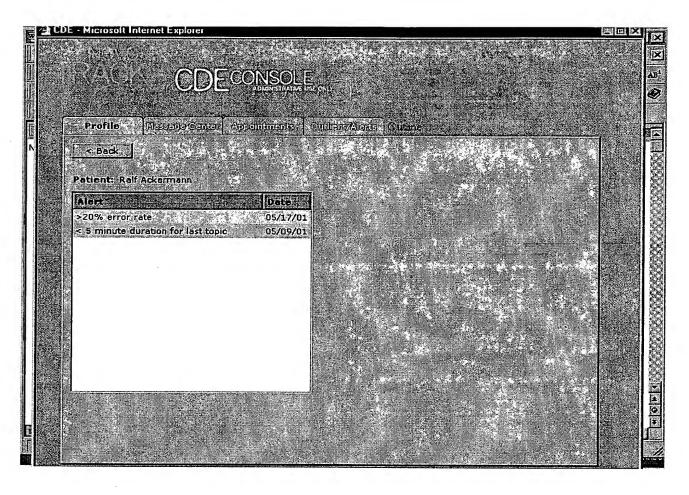


FIG.7M

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	Fram Date Subject No Records Found	
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FIG. 7N

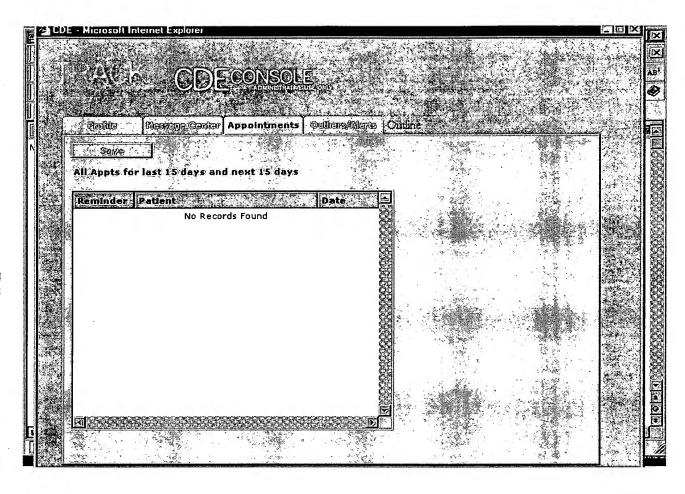


FIG. 70

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Ackermann, Ralf: < 5 minute duration for last topic 05/09/01	
	<u> </u>
	1000

FIG. 7P

FIG. 8A

NovoTrack Guide To Good Care Outline

Comparison of the Topic Medical Record Data Patient Attitude Data Questions Rumbering sequence is by track, then topic. Note that a letter after the number indicates a choice of article for that topic depending on patient characteristics entereed by the patient in response to questions at the time of registration. Both the CDE and pateint can edit data if required.

<u>Track 1 - Getting Good Care</u> (4 articles: This section has 1 **Medical Record** choice and 1 **Patient Attitude** response at registration to choose persepctive for the articles.)

1.1 Defining Quality Care	Questions
1.2a . Caring for Yourself	New Diagnosis Questions
1.2b Caring for Yourself	Established Patterns Questions
1.3 Your Diabetes Care Team	Questions
1.4a Proof that Good Care Matters	Type 1 Questions
1.4b Proof that Good Care Matters	Type:2 Questions

<u>Track 2 - What is Diabetes</u> (4 articles: This section has 1 **Medical Record** choice at registration to choose persepctive for the articles.)

2.1 Before You Had Diabetes	Questions
2.2a What Causes Diabetes	Type 1 Questions
2.2b What Causes Diabetes	Type 2 Questions
2.3a Effects of Diabetes	Type 1: Questions
2.3b Effects of Diabetes	Type 2 Questions
2.4a Who Gets Diabetes	Type 1 Questions
2.4b Who Gets Diabetes:	Type 2 Questions

<u>Track 3 - Healthy Eating & Exercise</u> (2 articles: This section has 2 **Medical Record** choices and 1 **Patient Attitude** response at registration to choose persepctive for the articles.)

3.1a Healthy Eating	Type 1: Questions
3.1b <u>Healthy Eating</u>	Type 2 BMI < 28
3.1c Healthy Eating	Tyne 2
	BMI > 28
3.2a Healthy Exercise 3.2b Healthy Exercise	Type 1 Sedentary Questions
3.2c Healthy Exercise	Type:1 Active Questions Type:1 Disabled Questions
3.2d Healthy Exercise	Type 2 Sedentary - Questions
3.2e Healthy Exercise	Type 2 Active Questions
3.2f Healthy Exercise	Type 2 Disabled Questions

<u>Track 4 - Using Medications Wisely</u> (8 articles: This section has 1 **Medical Record** choice and 2 **Patient Attitude** responses at registration to choose persepctive for the articles.)

FIG. 8B

4.1a	Choosing The Right	Туре 1		Questions
4.1b	How Diabetes Medications Work	Type 2		Questions
4.2a	Intensive Insulin Therapy	Type 1: 10000000000000000000000000000000000		Questions
4.2b	Combinations Of Medications	Туре 2		Questions
4.3a	Practical Tips For Insulin Use	Type 1		Questions
4.3b	Insulin For Your Diabetes	Type 2	Accepts Injections	Questions
4.3c	Insulin For Your Diabetes	Type 2	Rejects Injections	Questions
4.4a	Hypolqlycemia	Type 1		Questions 🐇
4.4b	Hypolglycemia	Type 2		Questions
4.5a	Monitoring Your Blood Sugar	Type 1	Infrequent Monitoring	<u>Questions</u>
4.5b	Monitoring Your Blood Sugar	Type 1	Frequent Monitoring	<u>Questions</u>
4.5c	Monitoring Your Blood Sugar	Type 2	Infrequent Monitoring	Questions
4.5d	Monitoring Your Blood Sugar	Type 2	Frequent Monitoring	Questions
4.6	Treating High Cholesterol			Questions
4.7	Treating High Blood Pressure			Questions
4.8	Benefits of Asprin			Questions

<u>Track 5 - Family, Friends & Feelings</u> (4 articles: This section has 1 **Patient Attitude** response at registration to choose persepctive for the articles.)

5.1a A Healthy Attitude	Optimistic	Questions
51b A Healthy Attitude	Balanced	Questions
5.1c A Healthy Attitude	Pessimistic	Questions
5.2 <u>Setting Goals</u>		Questions
5.3 Family & Friends		Questions
5.4 Getting Help		Questions

$\frac{Track\ 6\ -\ Complications}{\text{Attitude response at registration to choose persepctive for the articles.)}}$

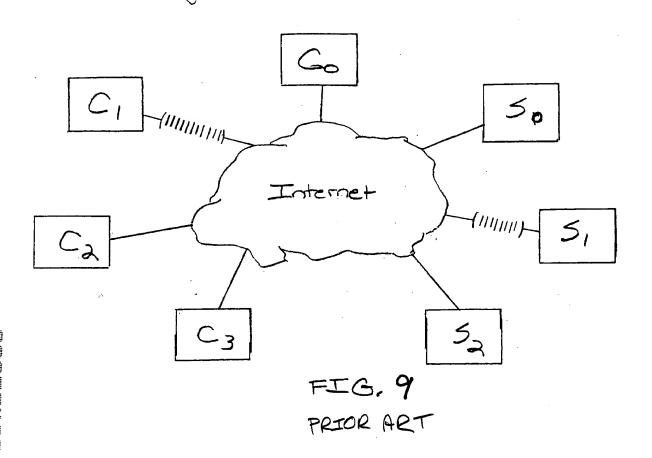
6.1a Preventing Retinopathy	Complication Absent	Questions
6.1b Treating Retinopathy	Complication Present	Questions
6.2a Preventing Neuropathy	Complication Absent	Questions
6.2b Treating Neuropathy	Complication Present	Questions
6.3a Preventing Nephropathy	Complication Absent	Questions
6.3b Treating Nephropathy	Complication Present	Questions
6:4a Foot Care	Low Risk	Questions
6.4b Foot Care	High Risk	Questions
6.5a Preventing Heart Disease	No Ischemia	Questions
6.5b Treating Heart Disease	Prior/Current Ischemia	Questions

FIG. BC

6.6a Smoking	Nonsmoker	<u>Questions</u>
6.6b <u>Smoking</u>	Smokes - Wants to quit	Questions
6.6c Smoking	Smokes - Doesnt	Questions
6:7 Dental Care		Questions

 $\underline{\text{Track 7 - Special Situations}}\text{ (5 articles: This section has 3 } \textbf{Medical Record } \text{choices at registration to } \text{choose persepctive for the articles.)}$

7.1a Driving	Type 1	Questions
7.1b Driving	Type 2	 Questions
7/2a Traveling	Type 1	Questions
7.2b Traveling	Type 2	Questions
7.3a Employment	< 62 years old	Questions ::
7.3b Retirement	> 62 years old	Questions :
7.4a 🐨 Insurance 💮 💮 💆	< 62 years old	Questions
7.4b Medicare	> 62 years old	Questions
7.5a Men's Sexuality	Male	Questions :
7.5b. Women's Sexuality	Female, < 45 years old	Questions :
7:5c Women's Sexuality	Female, > 45 years old	Questions
7.6a Sick Days	Type 1	Questions
7.6b Sick Days	Type 2	Questions



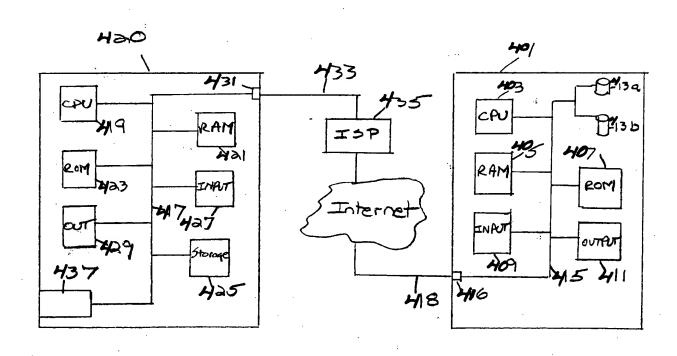


FIG. 10 PRIOR ART